Illinois Commerce Commission 111(d) Policy Session 2

Building Block 3: Clean Generation

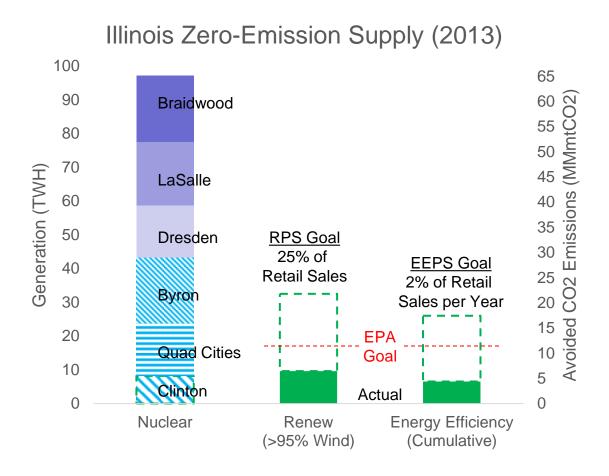
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Illinois Nuclear

 Nuclear retirements in Illinois have the potential to increase overall CO2 emissions in the US by roughly 65 million metric tons of CO2 per year, far more than the CO2 abatement from the very ambitious renewables and energy efficiency programs currently being pursued in Illinois.



Note: Replacement generation is assumed to have an emission intensity of roughly 1475 lbs/MWH based on the EIA AEO2013 regional average. Avoided emission forecasts may be higher or lower depending on the replacement assumptions.



Nuclear Economics

- In the preamble, EPA states that "nuclear units may be experiencing up to a \$6/MWH shortfall in covering their operating costs with electricity sales." This can be corroborated by an analysis of nuclear cost estimates and historic/forward electricity prices.
- A relatively modest carbon price (equivalent to roughly \$6/MWH) would preserve much existing merchant nuclear capacity that is currently unprofitable and at risk of premature retirement.

2016 Forecast

